VIDEOJET decoder 3000

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Invented for life

- HD 1080p30/i60 or 720p60 decoding in single view
- Quad-view option for SD video up to 960H
- HDMI or composite video output
- Bi-directional audio and keyboard support
- Alarm inputs and relay output

VIDEOJET decoder 3000 displays H.264 encoded video at up to 60 images per second from PAL, NTSC, or HD sources over IP networks.
Establish the video connections automatically from the camera, encoder, decoder, or Bosch's comprehensive video management system. VIDEOJET decoder 3000 is capable of decoding a single HD video stream, or up to four SD video streams at the same time in quad-mode. Control the viewing mode remotely via a management system. It can drive an HD monitor via HDMI directly, thus is ideally suited for applications like flat-screen monitor walls. Alternatively, it can connect to an analogue monitor using its composite video BNC output.
VIDEOJET decoder 3000 provides one-channel bidirectional audio communication in parallel to video. Ultra-compact in size, VIDEOJET decoder 3000 is perfect for any application that depends on space-saving solutions.

Functions

Access security
VIDEOJET decoder 3000 offers various security levels for accessing the network, the unit, and the data channels. As well as password protection with two levels, it supports 802.1x authentication using a RADIUS server for identification. You can secure Web browser access by HTTPS using a SSL certificate that is stored in the unit, providing total data protection with AES or 3DES encryption, according to the client's encryption capabilities. Alternatively, each communication channel—video, audio, or serial I/O—can be independently AES encrypted with 128-bit keys, once the encryption site license has been applied.

High performance
Transmit IP video to a high-performance VIDEOJET decoder 3000 and present it with ultimate clarity on an analog CCTV monitor or on a large, flat-screen display.
VIDEOJET decoder 3000 can handle up to four SD H.264 video streams with full resolution and frame rate and display them in quad-view. When in single-view, it can display an HD video stream up to 1080p30 or 720p60.

Flexibility
With its connection page in the web browser, the optional IP Matrix license, the support of IntuiKey keyboard and integration into Video Clients and Video Management Systems, VIDEOJET decoder 3000 enables solutions in varieties from the smallest stand-alone up to large or distributed but centrally controlled applications.

Keyboard support
VIDEOJET decoder 3000 allows direct connection of an IntuiKey keyboard to its serial interface. Controlled by and communicating to a video management system this allows to set up PC-less operator desks, ideal for remote locations like doorman's offices.

IP Matrix system
IP Matrix can be used to control IP-based monitoring systems of up to 32 cameras and up to ten monitors via an IntuiKey keyboard without the use of a computer. In normal operation, the system works only via the network connections between IP cameras, encoders and decoders, controlled via the IntuiKey. As part of a larger CCTV system, IP Matrix can be used as a satellite system. The higher-ranking system can access IP Matrix for control purposes.
Otherwise, IP Matrix works independently and is completely self-sufficient.

Easy upgrade
Remotely upgrade the decoder whenever new firmware or software becomes available. This ensures up-to-date products, thus protecting investment with little effort.

Decoding performance

Encoding	Streams	Resolution	Max. bit rate
H.264 HD	1	1080p30	10 Mbps
H.264 HD	1	1080i60	10 Mbps
H.264 HD	1	720p60	10 Mbps
H.264 SD	4	960H/4CIF/ 432p	6 Mbps

Certifications and approvals

Safety

Region	Number
	IEC 60950-1

System

Region	Number
	IEC 62676-2
	EN 50132-5-2

Electromagnetic compatibility

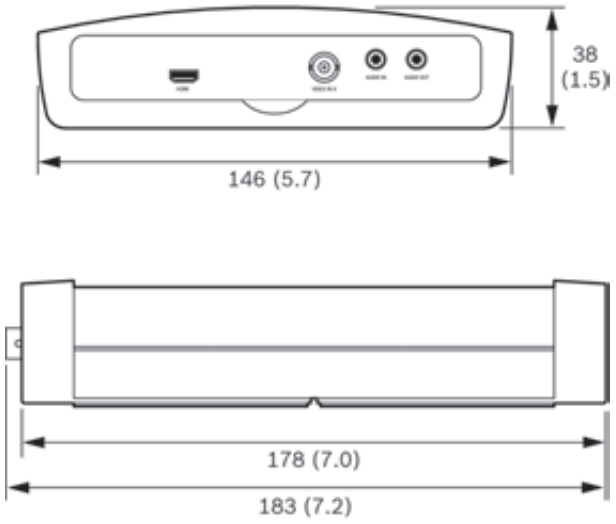
Region	Number
EU	EN 55022 ITE
	EN 55024 ITE
	EN 61000-3-2
	EN 61000-3-3
	EN 50130-4 Alarm systems
	EN 50121-4 Railway
AUS/NZ	AS/NZS 3548 Class B
US	FCC 47 CFR Part 15 Subpart B Class B

Approvals

Region	Certification	
Europe	CE	VIDEOJET decoder 3000
USA	UL	VIDEOJET decoder 3000
	UL	Bosch UL online certifications directory (link)

Installation/configuration notes

Dimensions (front view / side view)



Dimensions in mm (in)

Front connectors and indicators

VIDEOJET decoder 3000 front view

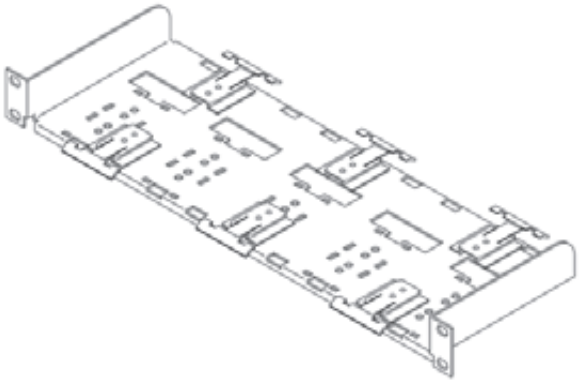
1 **HDMI OUT**
2 **VIDEO OUT**
3 **AUDIO IN**
4 **AUDIO OUT**

Rear connectors and indicators

VIDEOJET decoder 3000 rear view

1 10/100 Base-T Fast Ethernet
2 LED **LINK**
3 LED **CONNECT**
4 Factory reset button
5 LED **DISPLAY**
6 Alarm in, relay out, COM (RS-232/422/485)
7 Power **12 VDC**

Rack Mount Kit XF (optional)



Parts included

Quantity	Component
1	VIDEOJET decoder 3000
1	Quick Installation Guide
1	Safety Hints document
1	Power supply unit with 3 primary adapters (EU, US, UK)
1	Set of spring clamp contact connectors, wall mount and desktop accessories

Technical specifications

Input/output	
Digital video	1 x output
• standard	HDMI
• video modes	PAL, 704 x 576i @ 50 Hz NTSC, 704 x 480i @ 59.97 Hz 960H25, 960 x 576i @ 50 Hz 960H30, 960 x 480i @ 59.97 Hz 720p50, 1280 x 720p @ 50 Hz 720p60, 1280 x 720p @ 60 Hz 1080i50, 1920 x 1080i @ 50 Hz 1080i60, 1920 x 1080i @ 60 Hz 1080p25, 1920 x 1080p @ 25 Hz 1080p30, 1920 x 1080p @ 30 Hz
• connector	Type A
• cable length	30 m (98.43 ft) max
Composite video	1 x output
• connector	BNC
• impedance	75 ohm
• signal	Analog composite, 1 Vpp, NTSC or PAL
• cable length	30 m (98.43 ft) max
Audio	1 x bidirectional
• connector	2 x 3.5 mm stereo jack
• signal line in	9 kohm typical, 5.5 Vpp max
• signal line out	3.0 Vpp at 10 kohm / 1.7 Vpp at 16 ohm typical
Alarm	4 x input
• connector	Clamp (non-isolated closing contact)
• activation resistance	10 ohm max
Relay	1 x output
• connector	Clamp
• signal	30 Vpp (SELV), 200 mA
COM port	Clamp, RS-232/422/485, bidirectional

Video	
Standards	H.264 High Profile, H.264 Main Profile, H.264 Baseline Profile (ISO/IEC 14496-10) M-JPEG, JPEG
Data rates	9.6 kbps to 10 Mbps per channel
Total delay	300 ms max
Frame rate	1 to 25/30 (PAL/NTSC) 1 to 50/60 (HDMI)

Audio	
G.711	
• Frequency range	300 Hz to 3.4 kHz
• Data rate	80 kbps at 8 kHz sampling rate
L16 (reception only)	
• Frequency range	300 Hz to 6.4 kHz
• Data rate	640 kbps at 16 kHz sampling rate
Signal-to-noise ratio	> 50 dB

Network	
Ethernet	10/100 Base-T, auto-sensing, half/full duplex, RJ45
Protocols	IPv4, IPv6, UDP, TCP, HTTP, HTTPS, RTP/RTCP, IGMP V2/V3, ICMP, ICMPv6, RTSP, Telnet, ARP, DHCP, SNTP, SNMP (V1, MIB-II), 802.1x, DNS, DNSv6, DDNS (DynDNS.org, selfHOST.de, no-ip.com), SMTP, iSCSI, UPnP (SSDP), DiffServ (QoS), LLDP, SOAP, digest authentication
Encryption	TLS 1.0, SSL, DES, 3DES, AES

Control	
Software update	Flash ROM, remote programmable
Configuration	Configuration Manager or Web browser

Electrical	
Power supply	Via external unit
Input voltage	12 VDC
Input current	0.75 A
Power consumption	Approx. 9 W

Mechanical	
Dimensions (H x W x D)	38 x 146 x 183 mm (1.5 x 5.7 x 7.2 in)
Weight	Approx. 0.6 kg (1.3 lb)

Environmental	
Operating temperature	
• Decoder	0 °C to +50 °C (+32 °F to +122 °F) ambient temperature
• Power supply	0 °C to +40 °C (+32 °F to +104 °F) ambient temperature
Relative humidity	
• Decoder	0 to 90% atmospheric humidity, non-condensing
• Power supply	20 to 80% atmospheric humidity, non-condensing
Thermal value	31 BTU/h max

Note:
The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI logo are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.

Ordering information

VIDEOJET decoder 3000
Single/quad H.264 video decoder
Order number **VJD-3000**

Accessories

Rack Mount Kit XF
Rack mount kit for VIDEOJET XF and VIP XF encoders/decoders
Order number **VIP-VJTXF-RMK**

UML-273-90 27-inch High Performance HD LED Monitor
High-performance HD LED 27-inch monitor. 1920x1080p; 300 cd/m2; audio; BNC/HDMI/Component/DVI-D/VGA inputs; backlight 30,000 hours; viewing angle (HxW) 178x178; contrast 3000:1
Order number **UML-273-90**

UML-323-90 32-inch High Performance HD LED Monitor
High-performance HD LED 32-inch monitor. 1920x1080p; 350 cd/m2; audio; BNC/HDMI/Composite/DVI-D/VGA inputs; backlight 50,000 hours; viewing angle (HxW) 178x178; contrast 3000:1
Order number **UML-323-90**

UML-423-90 42-inch High Performance HD LED Monitor
High-performance HD LED 42-inch monitor. 1920x1080p; 500 cd/m2; BNC/HDMI/DVI-D/VGA inputs; backlight 50,000 hours; viewing angle (HxW) 178x178; contrast 4000:1
Order number **UML-423-90**

UML-553-90 55-inch High Performance HD LED Monitor
High-performance HD LED 55-inch monitor. 1920x1080p; 450 cd/m2; audio; BNC/HDMI/DVI-D/VGA inputs; backlight 50,000 hours; viewing angle (HxW) 178x178; contrast 4000:1
Order number **UML-553-90**

Software Options

BVIP AES 128 Bit Encryption
Single installation licence for BVIP AES 128-bit encryption site. Enables encrypted communication between BVIP devices and management stations.
Order number **MVS-FENC-AES**

IP Matrix
IP Matrix license for decoders to set up an IP-based CCTV surveillance systems with up to 32 cameras and up to 10 monitors controlled via an IntuiKey keyboard without PC operation.
Order number **MVC-FIPM**

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